



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY**  
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OFFICE OF  
AIR AND RADIATION

May 25, 2001

CCD-01-09 (LDV/LDT)

Dear Manufacturer:

Subject: Revisions to Vehicle Emission Control Information (VECI) Label

The introduction of vehicles certified to California LEV II or Federal Tier 2 emission standards requires that EPA make changes to the VECI label. Accordingly, the following changes become effective for the 2004 and later model year vehicles, and for any pre-2004 model year vehicles certified to LEV II or Tier 2 emission standards. The revisions described in this letter have been co-ordinated with the California Air Resources Board (CARB). The changes are:

1. Character positions 6 and 7, the applicable California and Federal emissions standards, respectively, in the current VECI bar code format will be moved to character positions 1 and 2 in the new format.
2. A new set of alpha-numeric codes apply to the new character positions 1 and 2. These codes identify the applicable California LEV II standards or the Federal Tier 2 standards.
3. A new coding system for correctly identifying vehicles certified on a chassis dynamometer or an engine dynamometer is specified for character position 3. These class definitions are a simplification of the current CARB Vehicle Emission Configuration bar coding requirements.
4. To harmonize Federal VECI labeling requirements with CARB, EPA is adding an optional 9<sup>th</sup> character to the bar code.

Table 1 presents the new format for the VECI label. Tables 2 and 3 present the new letter codes which identify the vehicle's applicable California or Federal emission standards, respectively. Table 4 describes the Federal emission standards which correspond to the bin numbers referenced in Table 3, including the multiple standards in bins 8, 9, and 10. Table 5 presents the new codes for the Class field, barcode character position three.

If you have any questions about this letter, please contact Martin Reineman by e-mail at [reineman.martin@epa.gov](mailto:reineman.martin@epa.gov) or by telephone at 734-214-4430.

Sincerely,

Gregory A. Green, Director  
Certification and Compliance Division  
Office of Transportation and Air Quality

Attachments

**Table 1**

**New VECI Barcode Format**

	<b>2004 and Later Model Years</b>	
<b>Character Position</b>	<b>Field Description</b>	<b>Character Type</b>
1	California Emission Standards	Letter
2	Federal Emission Standards	Letter
3	Class	Number or Letter
4	Wild Card	Number or Letter
5	Combustion/fuel Type	Number or Letter
6	Engine Displacement (liters)	Number
7	Engine Displacement (liters)	Number
8	Emission Control System	Letter
9	Optional Character	Number or Letter

Note: Changes for the 2004 MY and later also apply to pre-2004 MY LEV II and Tier 2 vehicles.

**Table 2**

**Character Position 1 - California Standards**

<b>Code</b>		
A	LEV II	120K
B	ULEV II	120K
C	SULEV II	120K
D	ZEV	100K/120K
E	LEV II	150K
F	ULEV II	150K
G	SULEV II	150K
H	LEV II Interim	150K
I	ULEV II Interim	150K
J	SULEV II Interim	150K
K	LEV II Interim	120K
L	ULEV II Interim	120K
M	SULEV II Interim	120K
N	Tier 1	100K/120K
O	LEV I	100K/120K
P	ULEV I	100K/120K
Q	SULEV I	120K
R	LEV II, Option 1	120K
S	LEV II, Option 1	150K
T	LEV II, Option 1 Interim	120K
U	LEV II, Option 1 Interim	150K
V	Federal Vehicle, Legal for Sale in CA	
W	> 14K GVW	
X	Not Certified for CA	
Y	> 14K GVW, Clean NOx and/or PM	

Notes: 1) Interim = Standards for the first two years that rule applies.

2) The applicable useful life, 100K or 120K, depends on the vehicle type.

3) Codes T and U are interim NOx in-use standards which should be proposed in November 2001.

**Table 3**

**Character Position 2 - Federal Standards**

<b>Code</b>	
A	Bin 1
B	Bin 2
C	Bin 3
D	Bin 4
E	Bin 5
F	Bin 6
G	Bin 7
H	Bin 8
I	Bin 8a
J	Bin 9
K	Bin 9a
L	Bin 9b
M	Bin 10
N	Bin 10a
O	Bin 10b
P	Bin 10c
Q	Bin 11
R	
S	
T	
U	
V	
W	Engine Dynamometer Certification
X	Not Certified for Federal Standards
Y	

**Table 4****Federal Standards**

Bin No.	NOX g/mi	NMOG g/mi	CO g/mi	HCHO g/mi	PM g/mi	Notes
11	0.9	0.280	7.3	0.032	0.12	a, c
10c	0.6	0.280	6.4	0.027	0.08	a, b, d, f, h
10b	0.6	0.280	4.2	0.018	0.08	a, f, h
10a	0.6	0.230	6.4	0.027	0.08	a, b, h
10	0.6	0.156	4.2	0.018	0.08	a, h
9b	0.3	0.180	4.2	0.018	0.06	a, b
9a	0.3	0.130	4.2	0.018	0.06	a, e
9	0.3	0.090	4.2	0.018	0.06	a
8a	0.20	0.156	4.2	0.018	0.02	a, b, f
8	0.20	0.125	4.2	0.018	0.02	f
7	0.15	0.090	4.2	0.018	0.02	
6	0.10	0.090	4.2	0.018	0.01	
5	0.07	0.090	4.2	0.018	0.01	
4	0.04	0.070	2.1	0.011	0.01	
3	0.03	0.055	2.1	0.011	0.01	
2	0.02	0.010	2.1	0.004	0.01	
1	0.00	0.000	0.0	0.000	0.00	

Notes: a) This bin is deleted at end of 2006 model year for LDV/LDT, (end of 2008 model year for HLDTs and MDPVs).

b) Higher NMOG, CO, and HCHO values apply for HLDTs and MDPVs only.

c) This bin is only for MDPVs.

d) Optional NMOG standard of 0.280 g/mi applies for qualifying LDT4s and qualifying MDPVs only.

e) Optional NMOG standard of 0.130 g/mi applies for qualifying LDT2s only.

f) Flex fueled Bin 10 vehicles can be certified to an NMOG standard of 0.195 (50K)/0.280 (full life) when operated on alcohol. Flex fueled Bin 8 vehicles can be certified to an NMOG standard of 0.125 (50K)/0.156 (full life), when operated on alcohol.

g) The full useful life PM standards also apply at intermediate useful life.

h) Intermediate life standards of this bin are also optional for diesels.

i) Intermediate life standards are optional for vehicles certified to a useful life of 150,000 miles.

**Table 5****Character Position 3 - Class****Chassis Certified**

<b>Code</b>	<b>Class</b>	<b>LVW (pounds)</b>	<b>ALVW (pounds)</b>	<b>GVW (pounds)</b>
1	LDV/LDT1	≤3750		≤6000
2		>3750		≤6000
3			≤5750	6001 - 8500
4			>5750	6001 - 8500
5	MDPV			8501 - 10,000
6				8501 - 10,000
7				10,001 - 14,000
8	MDV3 - LEV1		5751 - 8500	
9	MDV4 - LEV1		8501 - 10,000	

**Engine Dynamometer Certified**

<b>Code</b>				<b>GVW (pounds)</b>
A				8501 - 14,000
B				>14,000
C				Urban Bus

Notes: a) Diesels are designated using character position 5 - Combustion/Fuel type.

b) Codes 1, 2, 3, and 4 represent the new CA designation of LDT under LEV2 and final Tier 2 standards. While the FTP standards are the same for all vehicles < 8500 GVW, the SFTP standards exist as four separate standards, thus requiring four unique codes.

c) Code 8 is used for MDV3 - LEV1 and Code 9 is used for MDV4 - LEV1 through 2006MY. Currently, no MDV5 or MDV1 vehicles exist.